

NASA CASE NO. MSC-22939-1-SB

Patent Application

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Dennis R. Morrison and Benjamin Mosier ) Group Art  
First Named Inventor: Dennis R. Morrison ) Unit:  
Serial No.: )  
Filed : May 15, 1998 )  
For: Externally Triggered Microcapsules )

Letter

Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

The enclosed application is being filed in accordance with Rules 1.10 and 1.53(b) in order to obtain a filing date of May 15, 1998. The application is being sent by Express Mail "Post Office to Addressee" under Certificate EG572620957US.

Respectfully submitted,

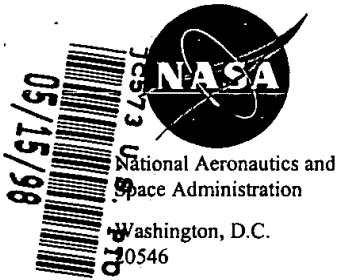
*James M. Cate*

James M. Cate, Reg. No. 25,181  
Attorney for Applicant

Houston, Texas 77058  
Telephone: 281-483-1001 or 281-483-4871  
Datafax: 281-244-8452

I hereby certify that the attached application "Externally Triggered Microcapsules," is being deposited with the United States Postal Service on May 15, 1998, as Express Mail "Post Office to Addressee" under Certificate No. EG572620957US in an envelope addressed to: Assistant Commissioner for Patents, Commissioner of Patents and Trademarks, Washington, D.C. 20231.

*James M. Cate*  
James M. Cate



Patent Application

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MSC-22939-1-SB  
(NASA Docket No.)

THE COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the Patent Application of:

Applicant: Dennis R. Morrison and Benjamin Mosier

Inventor(s): Dennis R. Morrison and Benjamin Mosier

Entitled: Externally Triggered Microcapsules

Enclosed are:

See PTO/SB/05, Utility Patent Application Transmittal for enclosures.

The fee has been calculated as shown below:

FOR (1)	CLAIMS FILED NUMBER		RATE (4)	FEE (5)
	FILED (2)	EXTRA (3)		
TOTAL CLAIMS	71 -20	= 51	x \$22.00	= \$1,122.00
INDEPENDENT CLAIMS	6 -3	= 3	x \$82.00	= 246.00
BASIC FEE (Minimum Amount Required)				\$790.00
TOTAL FILING FEE				\$2,158.00

Please charge our Deposit Account No. 14-0116 in the amount shown as the total filing fee. The Commissioner is hereby authorized to charge an additional fee which may be required to effect the filing of this application under 37 CFR 1.16 or credit any overpayment to Deposit Account No. 14-0116.

5/15/98  
(Date)

*James M. Cate*  
James M. Cate, Reg. #25,181  
(Attorney of Record)(Reg. No.)

NOTE. - This form to be used when filing a new or original application.  
NASA Form 1556 Electronically Reproduced April 1996

09079758-051598

Please type a plus sign (+) inside this box → ☐

PTO/SB/05 (1/98)

Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	MSC-22939-1-SB
First Inventor or Application Identifier	Dennis R. Morrison
Title	Externally Triggered Microcapsules
Express Mail Label No.	EG572620957US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification [Total Pages (preferred arrangement set forth below)
- Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 

4. Oath or Declaration [Total Pages 
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 17 completed)  
(Note Box 5 below)
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

5. ☐ Incorporation By Reference (useable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 C.F.R. §3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
10. ☐ English Translation Document (if applicable)
11. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
- \* Small Entity Statement(s) ☐ Statement filed in prior application, Status still proper and desired (PTO/SB/09-12)
14. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
15. ☐ Other: Letter containing the express mailing certificate Extra copy of the fee sheet (NASA form 1556)
16. ☒ \* A new statement is required to be entitled to pay small entity fees, except where one has been filed in a prior application and is being relied upon.

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No: 08 / 349,169

Prior application information: Examiner J. Spear Group / Art Unit: 1502

**18. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

Name	NASA Johnson Space Center				
	Mail Code HA				
Address	2101 NASA Road 1				
City	Houston	State	Texas	Zip Code	77058
Country	USA	Telephone	281-483-1001	Fax	281-244-8452

Name (Print/Type)	James M. Cate	Registration No. (Attorney/Agent)	25,181
Signature	<i>James M. Cate</i>	Date	6/15/98

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.